

The invention claimed is:

Claim 18: A rotary cutting apparatus comprising

a plurality of blades, each blade fixed to the end of a drive shaft in substantially perpendicular orientation to the shaft, each shaft projecting downward from a power means at an angle tilted longitudinally between 1 and 90 degrees from vertical,

a grass guide,

a chassis to which said rotary cutting apparatus is affixed, and

a means for effecting movement of the apparatus over a cutting surface.

Claim 19: The rotary cutting apparatus of claim 18, wherein said grass guide bends and constrains grass to be cut by the blades.

Claim 20: The rotary cutting apparatus of claim 18, wherein said angle is adjustably selected from the group consisting of some or all degrees between 1 and 90 degrees from vertical.

Claim 21: The rotary cutting apparatus of claim 18, wherein said angle is fixed at a single degree between 1 and 90 from vertical.

Claim 22: The rotary cutting apparatus of claim 18, wherein said means for effecting movement of the apparatus over a cutting surface comprises

a handle to facilitate manual propulsion of the apparatus over the cutting surface and

a plurality of wheels.

Claim 23: The rotary cutting apparatus of claim 18, wherein said power means comprises a single electric motor.

Claim 24: The rotary cutting apparatus of claim 18, wherein said power means comprises a plurality of small electric motors.

Claim 25: The rotary cutting apparatus of claim 18, wherein said power means consists of an internal combustion engine.

Claim 26: The rotary cutting apparatus of claim 18, wherein said power means consists of a hybrid power source comprising

an internal combustion engine and

one or more electric motors.

Claim 27: The rotary cutting apparatus of claim 23, wherein said motor or motors is powered by a battery or batteries.

Claim 28: The rotary cutting apparatus of claim 24, wherein said motor or motors is powered by a battery or batteries.

Claim 29: The rotary cutting apparatus of claim 23, wherein said motor or motors is powered by  
a combination of a battery or batteries and  
a solar cell.

Claim 30: The rotary cutting apparatus of claim 24, wherein said motor or motors is powered by  
a combination of a battery or batteries and  
a solar cell.

Claim 31: The rotary cutting apparatus of claim 23, wherein said motor or motors is powered by a fuel cell.

Claim 32: The rotary cutting apparatus of claim 24, wherein said motor or motors is powered by a fuel cell.

Claim 33: The rotary cutting apparatus of claim 18, wherein said cutting blades are replaceable.

Claim 34: The rotary cutting apparatus of claim 18, wherein said power means is replaceable.

Claim 35: The rotary cutting apparatus of claim 18, wherein said means for effecting movement of the apparatus over a cutting surface is robotic.

Claim 36: The rotary cutting apparatus of Claim 18, wherein the height of said cutting blades relative to the cutting surface is adjustable.